



## Dasfaa 2003 Panel Next-Generation Web Technology and Database Issues

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March 27<sup>th</sup>, 2003, Kyoto



## Agenda

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- General description
- 1<sup>st</sup> round of talks from panelists
- Discussion
- Questions and Answers
- 2<sup>nd</sup> round
- ...
- Wrap-up



## Panelists (in lexical order)

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- Prof. Dik Lee (Hong Kong U. Science & Technology)
- Prof. Tok Wang Ling (National U. Singapore )
- Prof. Stefano Spaccapietra (EPFL, Switzerland)
- Prof. Kyu-Young Whang [KAIST, Korea]
  
- Prof. Hiroshi Ishikawa [Tokyo Metropolitan U.]: Moderator



## Theme

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- This panel discusses the new next-generation **Web technologies** (semantic Web, Web conceptual modeling, Web services, XML, stream data modeling, multimedia content processing etc.) and the related **database issues**.
- Especially, this panel focuses on what database issues will become important according to the recent advances in the Web technologies.



## Semantic Web, XML, and Grid

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Hiroshi Ishikawa



## Semantic Web

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- Conferences and Workshops
  - Semantic Web Workshop: Models, Architectures and Management (Sept. 21, 2000, Lisbon, Portugal)
  - *Amicalola Report: Database and Information Systems Research Challenges and Opportunities in Semantic Web and Enterprises*, NSF-EU Workshop NSF-EU Workshop on (April 3-5, 2002, Georgia, USA)
  - The Semantic Web Workshop at the 11th International WWW Conference (May 2002, Hawaii, USA)
  - First International Conference on Ontologies, Databases and Applications of Semantics (Oct. 29-31, 2002, CA, USA), etc.
  - Semantic and Web Workshop (VLDB2003, forthcoming)
- Articles
  - Special Section on Semantic Web and Data Management (Sigmod record, vol.31, no.4, 2002)



## DB and Semantic Web

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- How can traditional DB technologies such as Semantic Modeling, Heterogeneous DB serve for ontology in Semantic Web?
- What new issues does Semantic Web raise to DB?



## XML

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- Conferences, Symposiums, and Workshops (papers and panels)
  - Sigmod02, VLDB02, EDBT02, and XSym03 (forthcoming), etc.
- Articles
  - Special Section on Advanced XML Data Processing (Sigmod record, vol.30, no.3, 2001)



## XML and DB

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- Which architecture is more promising for XML databases, monolithic or layered or something else?
- What new issues do semi-structured XML data bring about to DB?



## Grid (P2P and extensions)

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- Workshop
  - DB, IS and P2P (VLDB2003, forthcoming)



## Grid and DB

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- Is DB just a data-component of Grid computing?
- Can Grid provide DB with new powers such as cheap parallelism?
- What new issues do dynamism and mobility of Grid networks bring about to DB?



## Panel Wrap-Up

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## Wrap-up

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- Prof. Dik Lee
  
- Prof. Tok Wang Ling
  - Conceptual modeling, XML
- Prof. Stefano Spaccapietra
  - Semantic Web, P2P
- Prof. Kyu-Young Whang
  - Next-generation DBMS engine
- Prof. Hiroshi Ishikawa
  - Semantic Web, XML, Grid